CJCSI 3170.01A

"Requirements Generation System"

and

CJCSI 6212.01B

"Interoperability And Supportability of National Security Systems, and Information Technology Systems "

Overview

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Revised DODD 5000.1, DODI 5000.2 and DOD 5000.2R - USD-AT&L

DODD 4630.5 & DODI 4630.8 - OASD-C3I

Requirements

CJCSI 3170 (J8)

- Requirement Generation Process/Procedures
- MNS, CRD, ORD Format
- Interop KPP/IERs

CJCSI 6212 (J6)

- Interop Requiremts Cert
- C4ISP Supportability Cert
- Interop System Validation
- Methodology for Interop KPP/IER Development

CJCSI 3312 (J2)

- J2 Intel Supportability Certification

Acquisition

C4I Support Plan (OASD-C3I)

Operational/Systems/Technical Architecture Infrastructure Support

IERs

MOEs

Process

Testing

TEMP

Systems specs accurately reflect requirements and acquisition documents

Service/Agency Testing

- DT/Standards Conformance
- OT&E

DISA(JITC) Interoperability Test Certification

J-6 Interoperability System Validation

Significant Changes in 10 Aug 99 CJCSI 3170.01A

- **Added an Interoperability KPP and Information Exchange Requirements (IERs)**
  - **Interoperability KPP derived from the set of top-level IERs that characterize the information exchanges to be performed by the proposed system.**
  - **Interoperability KPP, along with other KPPs and critical technical and operational issues, is used to develop the C4ISP and the Test and Evaluation Master Plan (TEMP).**
- **Link to CJCSI 6212 for J-6 Interoperability Requirements Certification of MNS, CRDs, & ORD**

J-6 I-KPP and IER Review and Certification Status to Date

ALL ACATS

- **Certified 14**
- **Did NOT Certify 11 (one Stage II)**
- **Currently reviewing 36**

Interoperability KPP Derived from top-level IERs

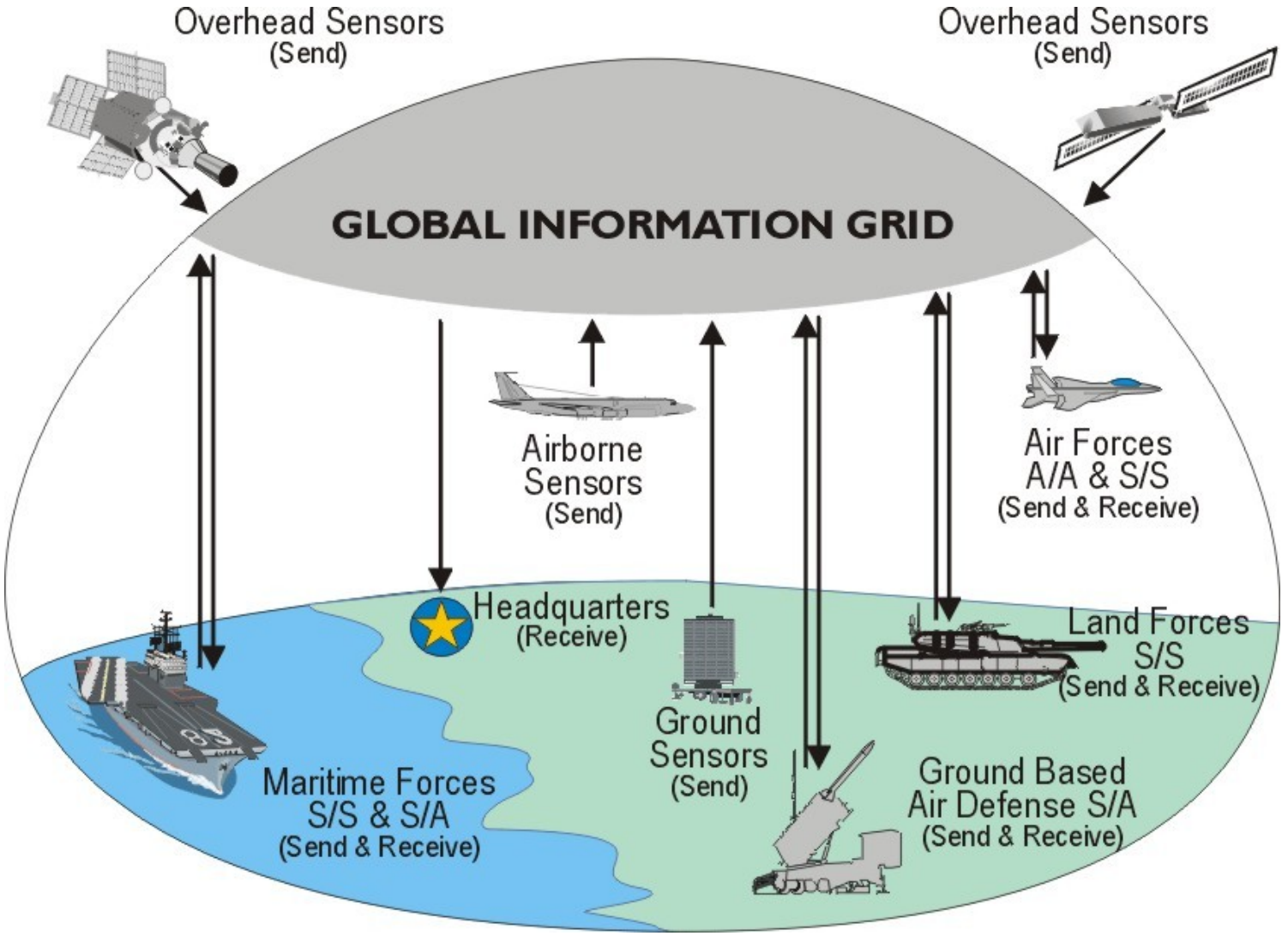
Interoperability KPP

	Threshold (T)	Objective (O)
All IERs will be satisfied to the standards specified in the T and O values.	**100% of IERS designated critical**	**100% of IERS**

Details are in the information exchange table

Combat Identification CRD

OPERATIONAL CONCEPT VIEW



Note: Sample IER matrix uses variables instead of actual numeric values in fields 6-8.

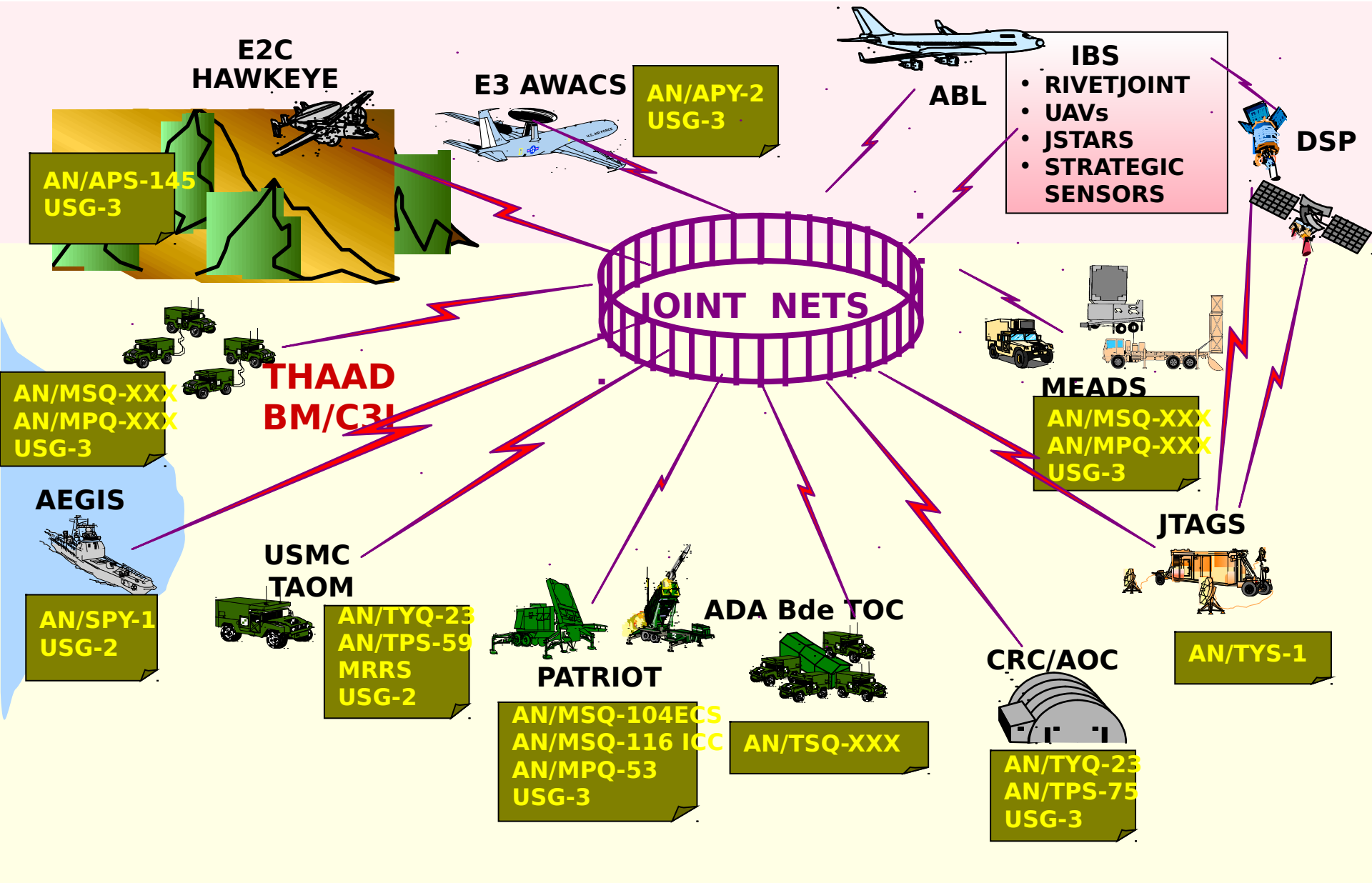
1	2	3	4	5	6	7	8	9
UJTL	**EVENT**	**INFORMATION CHARACTER**	**SENDING NODE**	**RECEIVING NODE**	**POSITION ACCURACY**	**DATA INTEGRITY**	**TIMELINESS**	**CRITICAL**
)P 2.2.5 :ollect Target nformation	Acquire info that supports the detection, ID, and location of enemy targets.	**Situation Awareness.** Target ID, Target Location, Target Track Updates	Strategic/ Operational/ tactical sensors	Operational/ tactical C2 Nodes and sensors	Less than AA Meters spherical error probable	Information transfer between sensor and user of BB%	Less than CC seconds	Yes
)P 2.2.5 :ollect Target nformation	Acquire info that supports the detection, ID, and location of enemy targets.	**Situation Awareness.** Target ID, Target Location, Target Track Updates	Strategic/ Operational/ tactical sensors	Operational/ tactical C2 Nodes and sensors	Less than XX Meters spherical error probable	Information transfer between sensor and user of YY%	Less than ZZ seconds	No
)P 3.2 :ttacks)perational argets	Attacks/ engage operational targets	**Targeting.** Target ID, Target Location, Target Track Updates	Strategic Operational/ tactical sensors	Operational/ tactical shooters	Less than AA Meters spherical error probable	Information transfer between sensor and user of BB%	Less than CC seconds	Yes
)P 3.2 :ttacks)perational argets	Attacks/ engage operational targets	**Targeting.** Target ID, Target Location, Target Track Updates	Strategic Operational/ tactical sensors	Operational/ tactical shooters	Less than XX Meters spherical error probable	Information transfer between sensor and user of YY%	Less than ZZ seconds	No
)P 3.2.7 ynchronize)perational argets	Attack on single or organizational targets at decisive time and place	**Targeting.** Enemy targets, Friendly Forces, Neutrals, NCBTS, L/B, L/L, Course, Speed, Altitude, Confidence	Strategic/ Operational/ tactical sensors	Operational/ tactical shooters	Less than AA Meters spherical error probable	Information transfer between sensor and user of BB%	Less than CC seconds	Yes

Figure B-3 Sample CRD Top Level IER Matrix (OV-3)

Note: Fields 6-8 are optional fields the originator elected to use

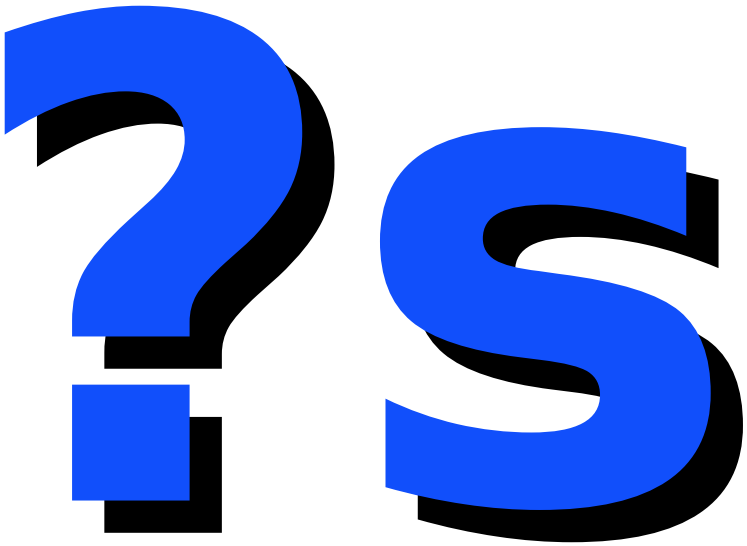
Theater High Altitude Area Defense

OPERATIONAL CONCEPT and SYSTEM INTERFACE DESCRIPTION VIEWS



1	2	3	4	5	6	7	8	9	10
Rationale UJTL #	**Event**	**Info Char**	**Sending Node**	**Receiving Node**	**Crit**	**Format**	**Timeliness**	**Class**	**Remarks**
OP 2.2.5 OP 2.4.2.4 OP 2.4.2.2 OP 6.1.6	TBM Launch & Detection	Targeting	IBS	THAAD	Y	Data (TADIL J)	<12 Sec	S	Sent upon launch detection to support attack operations. Both ways. Sent to THAAD initially, from THAAD to support cueing to refine GIP and ELP.
OP 2.2.5 OP 2.4.2.4 OP 2.4.2.2 OP 6.1.6	TBM Launch & Detection	Targeting	CRC/AOC	THAAD	Y	Voice	<12 Sec	S	Sent upon launch detection to support attack operations. Both ways. Sent to THAAD initially, from THAAD to support cueing to refine GIP and ELP.
OP 5.3.2 OP 5.4.3	Provide ROE Update (2/Day)	Situational Awareness	PATRIOT	THAAD	N	Data (USMTF)	<2 Hrs	S	Sent to provide ROE to LT (BN requirement). Both when THAAD is in Task Force Battalion mode.
OP 2.2.4	Collect Target Information	Situational Awareness	AEGIS	THAAD	Y	Data (TADIL J)	<12 Sec	S	Acquire information that supports detection, identification, and location of enemy targets. Both ways.
OP 3.2.7	Synchronize Operational Firepower	Targeting	AEGIS	THAAD	Y	Data (TADIL J)	<12 Sec	S	Enemy targets, friendly forces, neutrals, non-combatants, deconfliction, Line of bearing, ellipse, track ID, track LAT/LONG, track course, track speed, track altitude, confidence. Both ways.
OP 5.1.11	Target ID Coordination	Targeting	IBS	THAAD	N	Data (TADIL J)	<12 Sec	S	Enemy targets, friendly forces, neutrals, non-combatants, deconfliction, Line of bearing, ellipse, track ID, track LAT/LONG, track course, track speed, track altitude, confidence. Both ways/THAAD Bn function.

Figure B-6 Sample ORD Top Level IER Matrix (OV-3) Extract



Top-Level IER Matrix Format

from draft CJCSI 6212.01B

CRD/ORD Required Fields					
1 **Rationale/ UJTL Number**	**2** **Event/Action.**	**3** **Information Characterization.**	**4** **Sending Node**	**5** **Receiving Node**	**6** **Critical**
Set of joint mission tasks from the UJTL (CJCM 3500.04B 1 Oct 99 or current version) for each mission area identified in the CRD/ORD**.**	**Free Text:** Event/action that triggers the need for the information exchange.	**Pick List and Free Text:** The critical information characteristics that describes what information is being exchanged and how it is to be used	**Free Text:** Sending Node	**Free Text:** Receiving Node	**Logical Field:** Yes/No The criticality assessment of the information being exchanged in relationship to the mission being performed.

ORD Required Fields (Field 10 or more are optional for CRDs/ORDs)			
7 **Format**	**8** **Timeliness**	**9** **Classification**	**10** **Optional**
Pick List and Free Text: Description of data type.	**Numerical Field:** Required maximum time from node to node expressed in seconds.	**Pick List Field:** Classification of the information.	**Free Text:** As desired by the originator